

An introduction to searching in oXygen using XPath

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XPath

XPath is the basis of most other XML querying and transformation languages (such as XSLT and XQuery). It is used in many other contexts (Editors, XML Databases, Content Management Systems, Configuration Files) as a way to say what bit(s) of an XML document you are using.

It is **just** a way of locating nodes in an XML document.

What does XPath do?

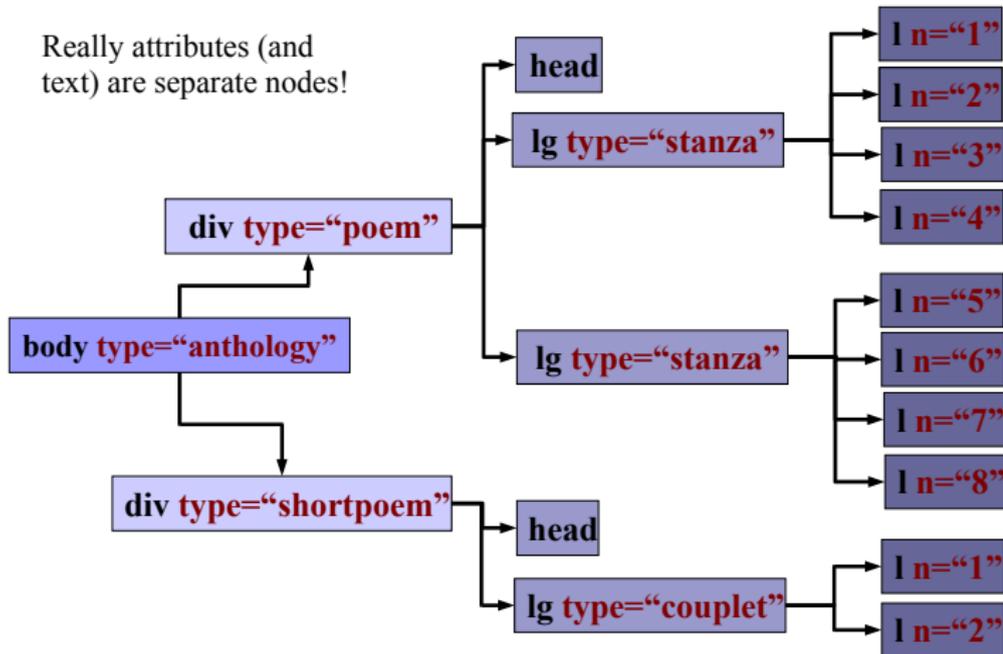
- XPath **does** nothing! It merely documents a set of nodes. An XPath processor does something with this.
- An XPath expression matches a set of nodes
- It encodes an 'address' for the selected nodes, sort of like a URL does or a file path
- This address can be given in a variety of ways including absolute or relative methods

Example text

```
<body n="anthology">
  <div type="poem">
    <head>The SICK ROSE</head>
    <lg type="stanza">
      <l n="1">0 Rose thou art sick.</l>
      <l n="2">The invisible worm,</l>
      <l n="3">That flies in the night </l>
      <l n="4">In the howling storm:</l>
    </lg>
    <lg type="stanza">
      <l n="5">Has found out thy bed </l>
      <l n="6">Of crimson joy:</l>
      <l n="7">And his dark secret love </l>
      <l n="8">Does thy life destroy.</l>
    </lg>
  </div>
  <div type="shortpoem">
    <head>Amorous Rhyme</head>
    <lg type="couplet">
      <l>What inspired this amorous rhyme?</l>
      <l>Two parts vodka, one part lime</l>
    </lg>
  </div>
</body>
```

XML Structure

Really attributes (and text) are separate nodes!



Basic XPath abbreviated syntax

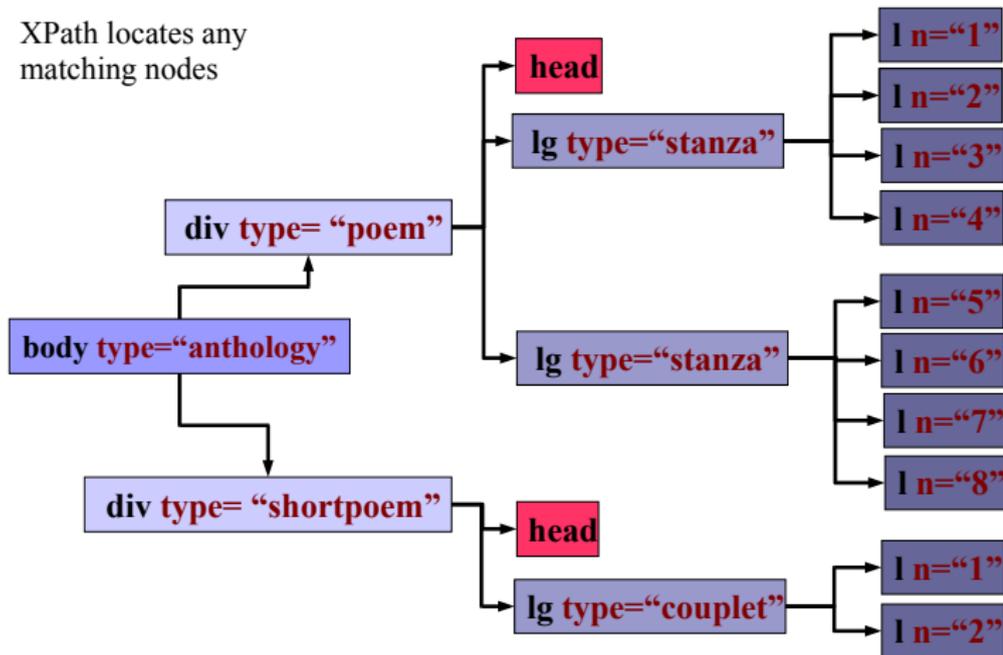
- / Level selector
- // Multi-level selector
- ../ one level up (relative)
- * Wildcard
- @ Attribute prefix
- @* Attribute wildcard
- [...] Filter / condition

`function(item, 'parameter')` function with parameters

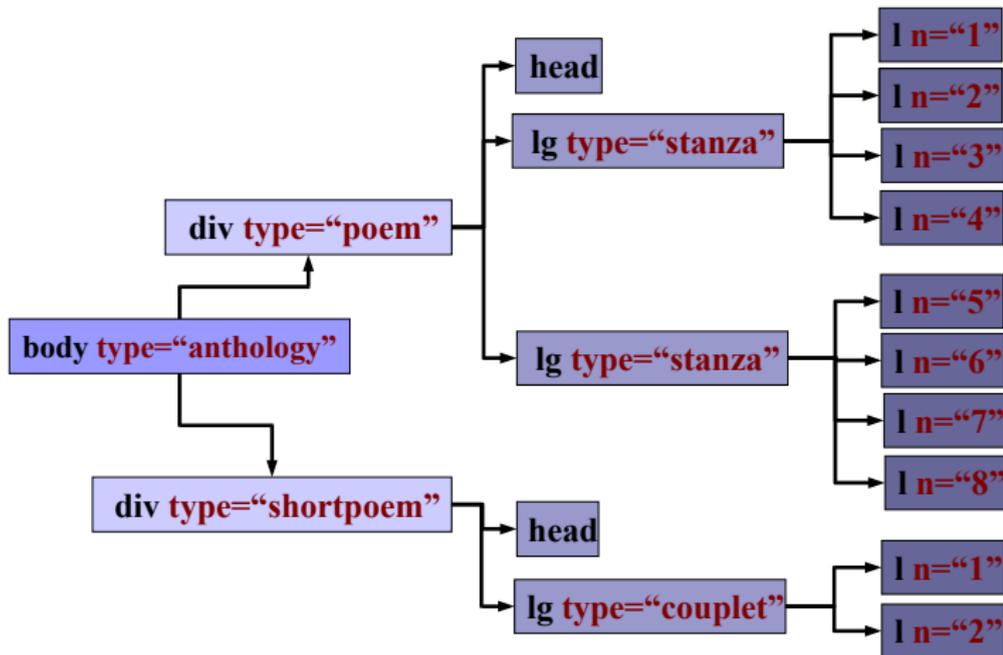
Every expression 'step' creates a new context, narrowing down the choice (usually) as you go further down the path.

/body/div/head

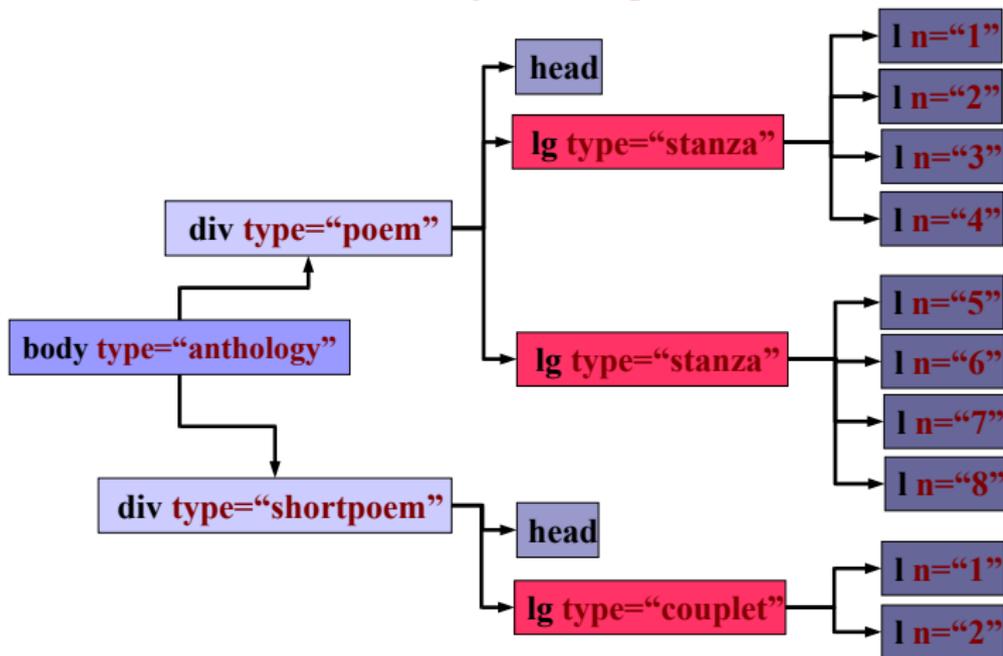
XPath locates any matching nodes



/body/div/lg ?

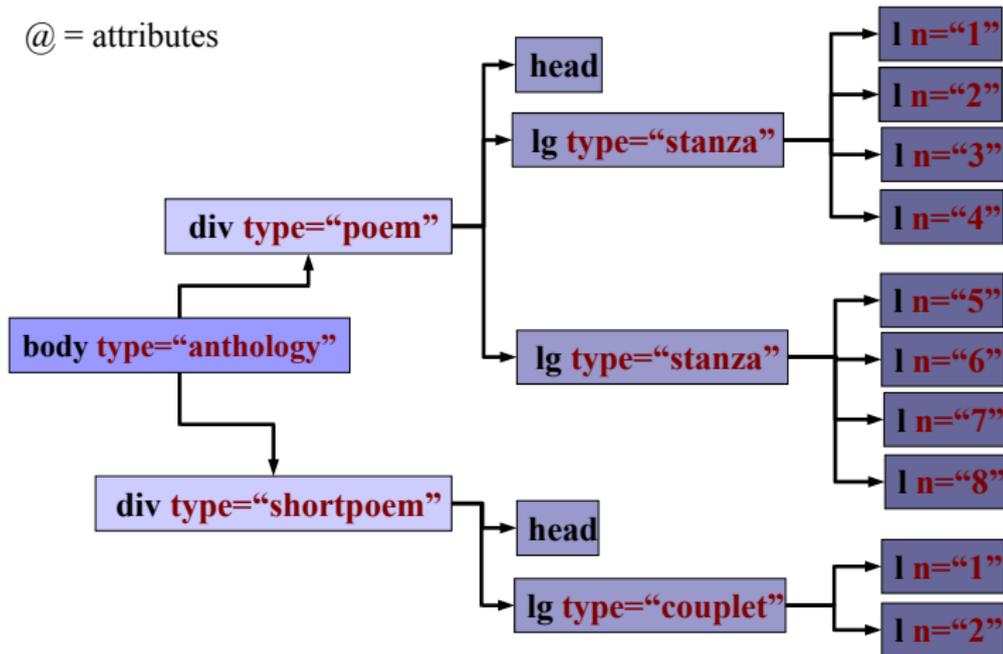


/body/div/lg

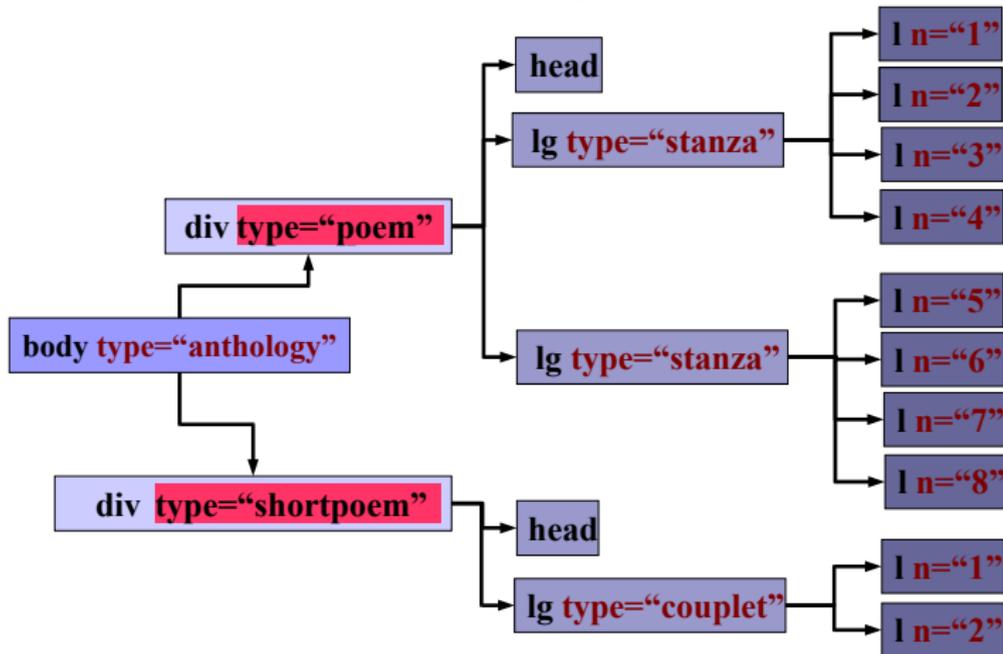


/body/div/@type ?

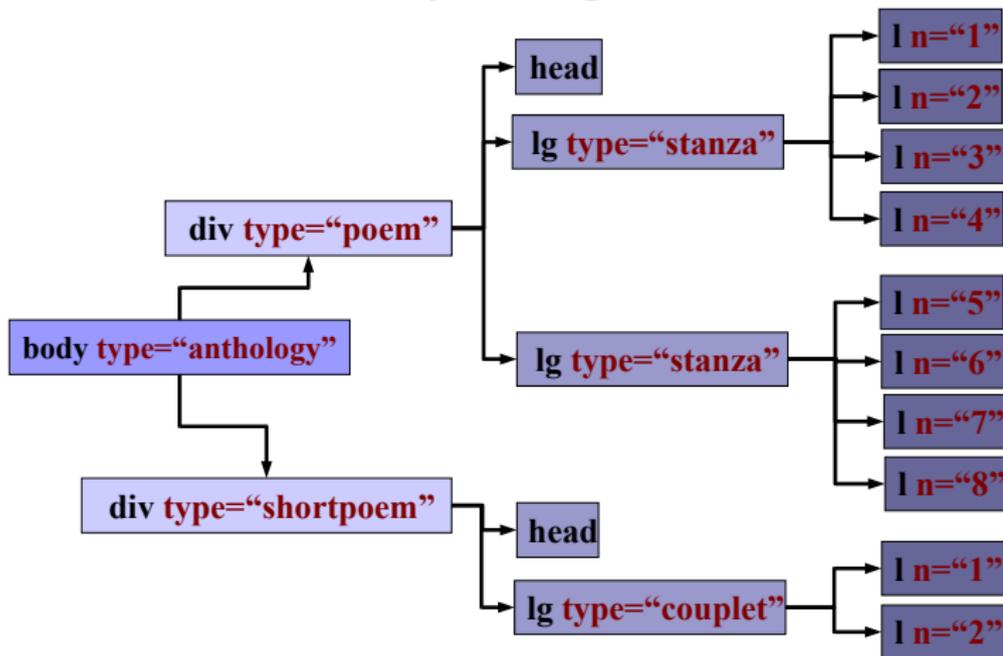
@ = attributes



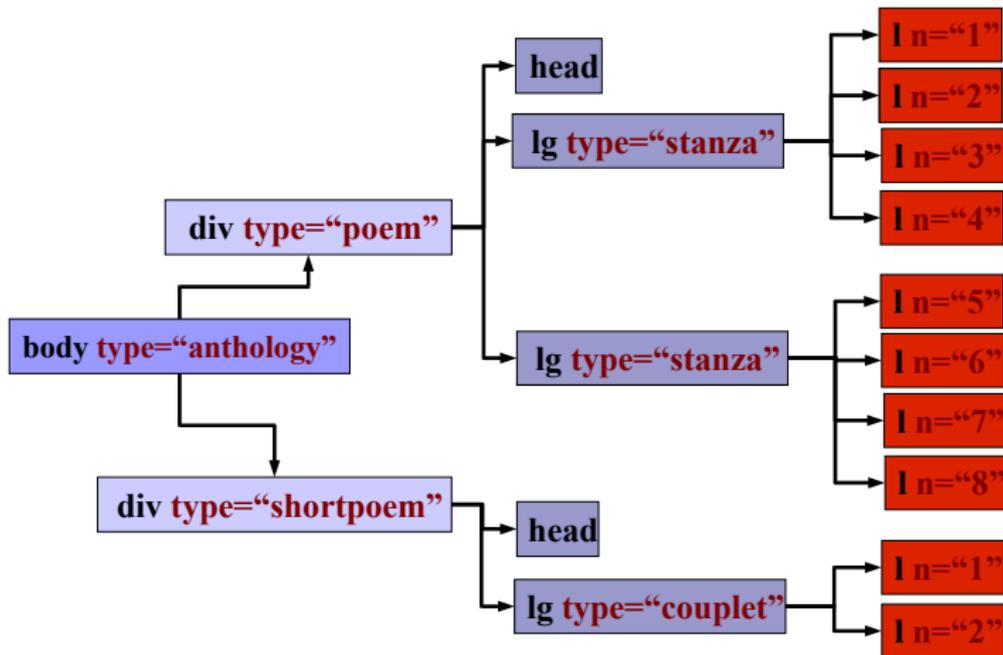
/body/div/@type



/body/div/lg/l ?

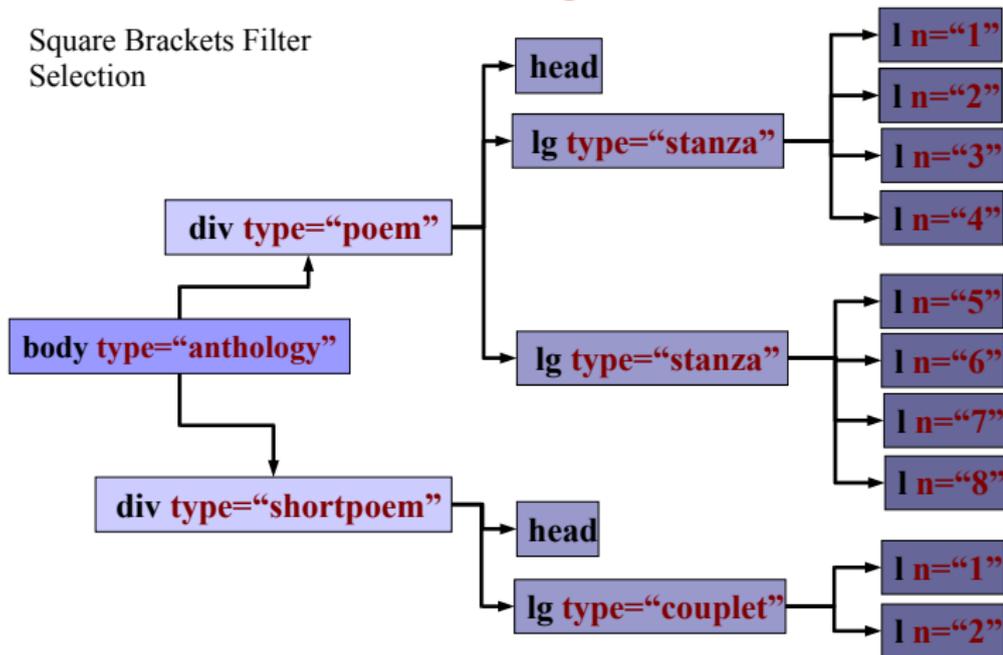


/body/div/lg/l

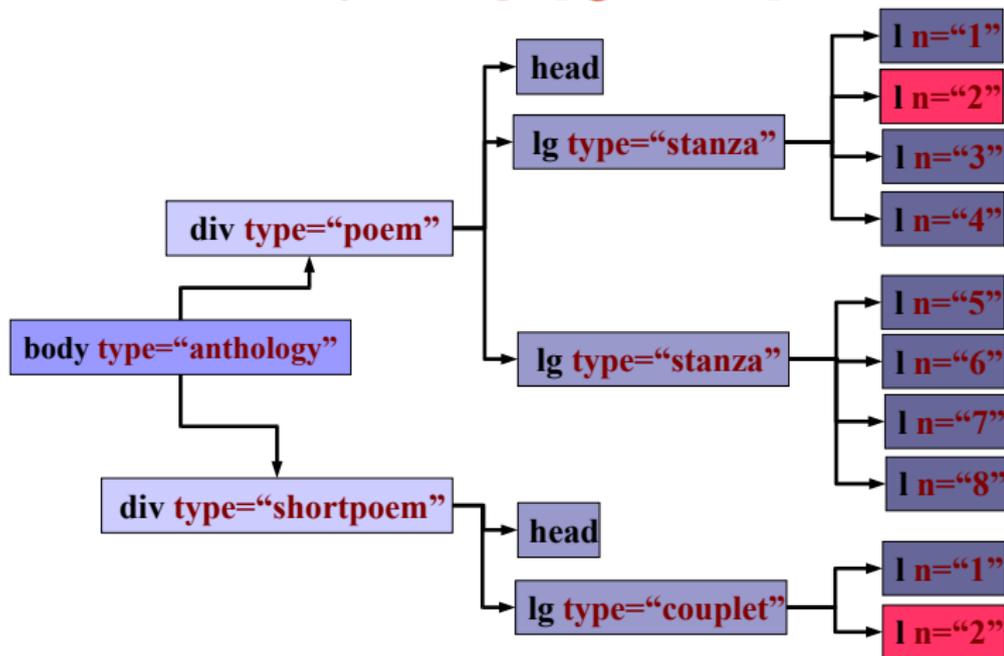


`/body/div/lg/l[@n="2"] ?`

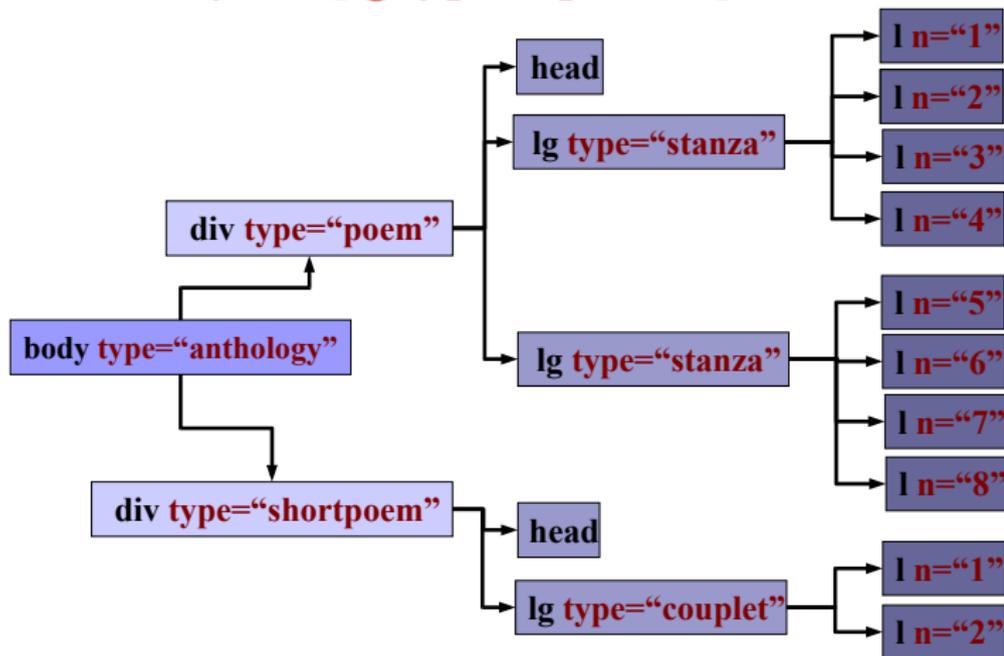
Square Brackets Filter
Selection



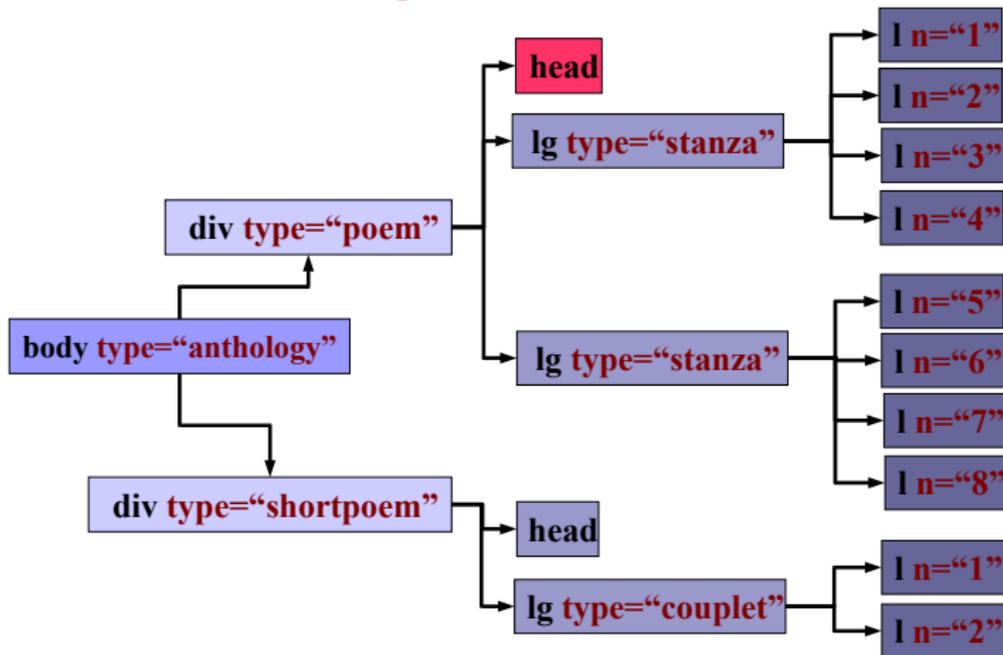
`/body/div/lg/l[@n="2"]`



`/body/div[@type="poem"]/head ?`

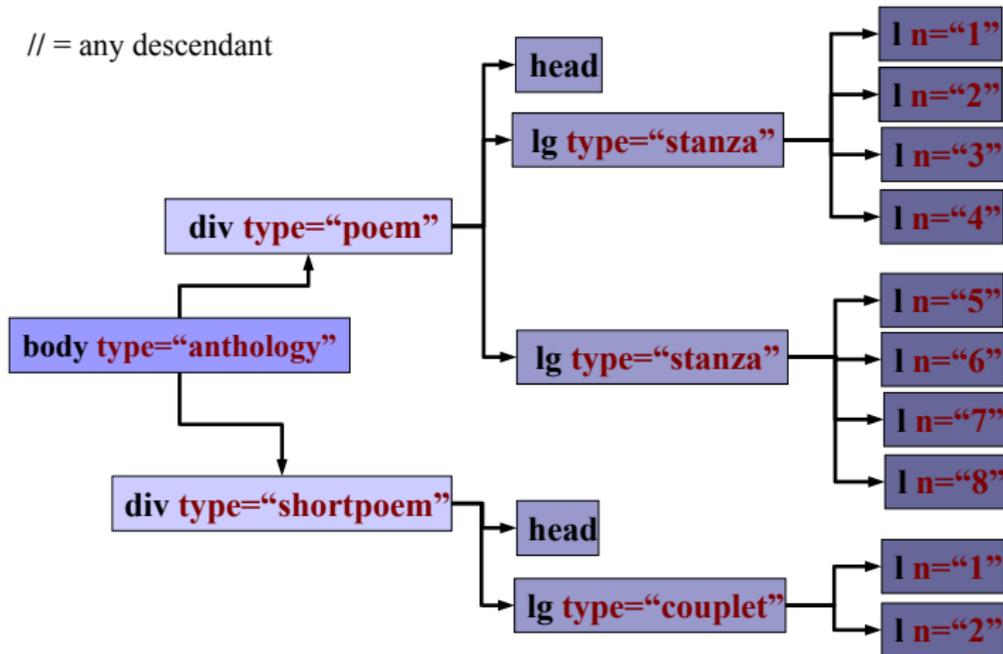


`/body/div[@type="poem"]/head`

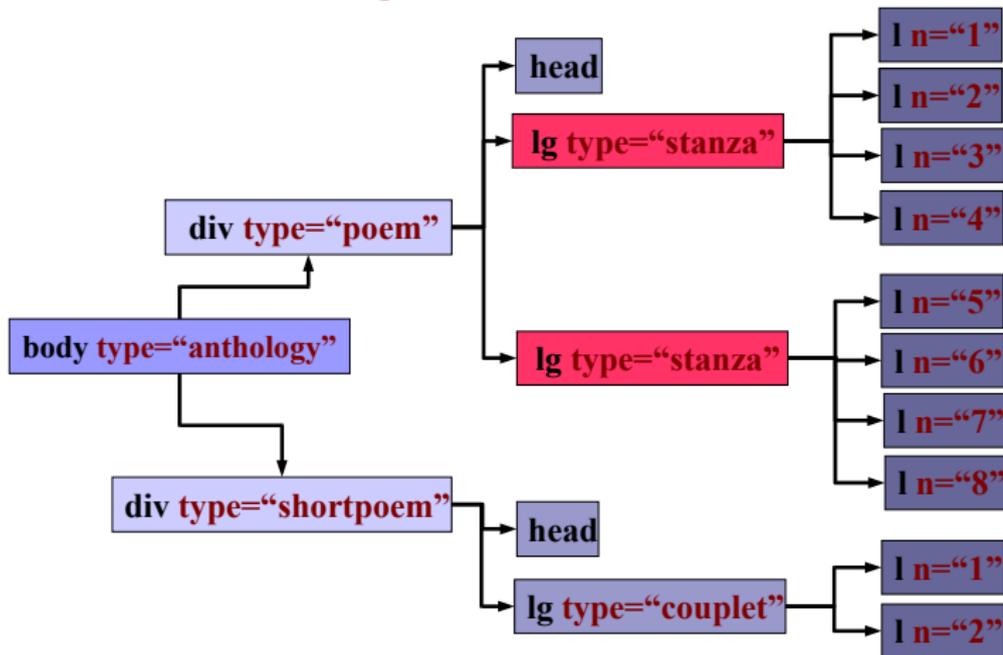


//lg[@type="stanza"] ?

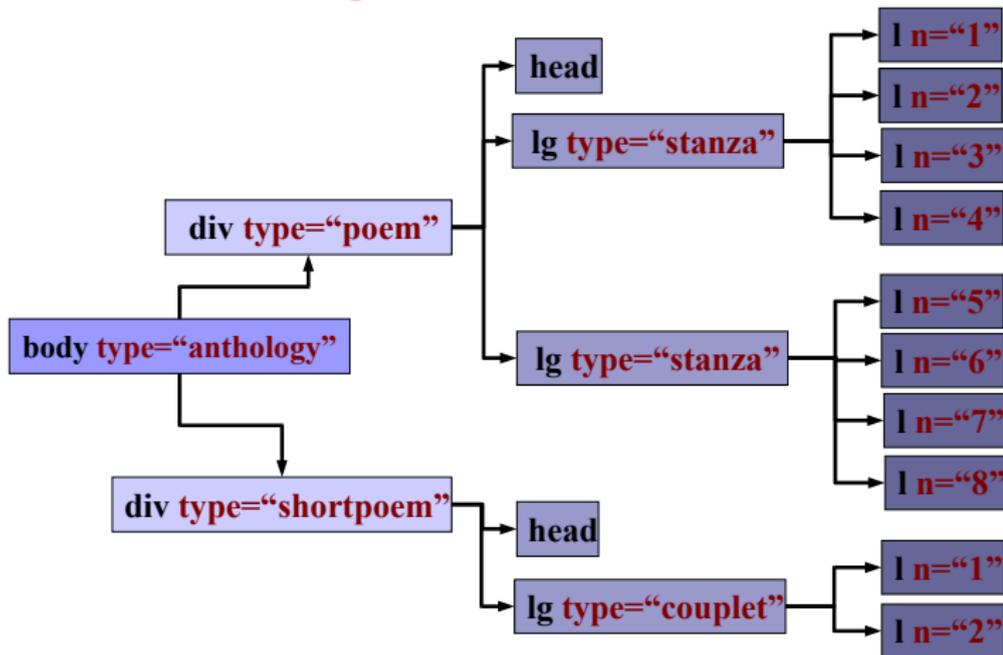
// = any descendant



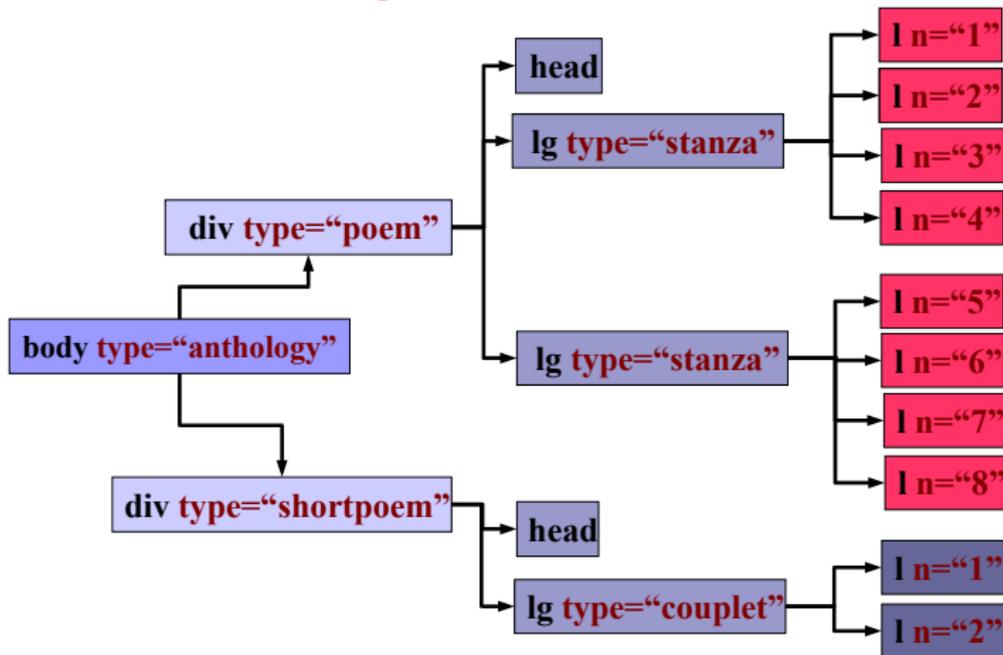
//lg[@type="stanza"]



//div[@type="poem"]//l ?



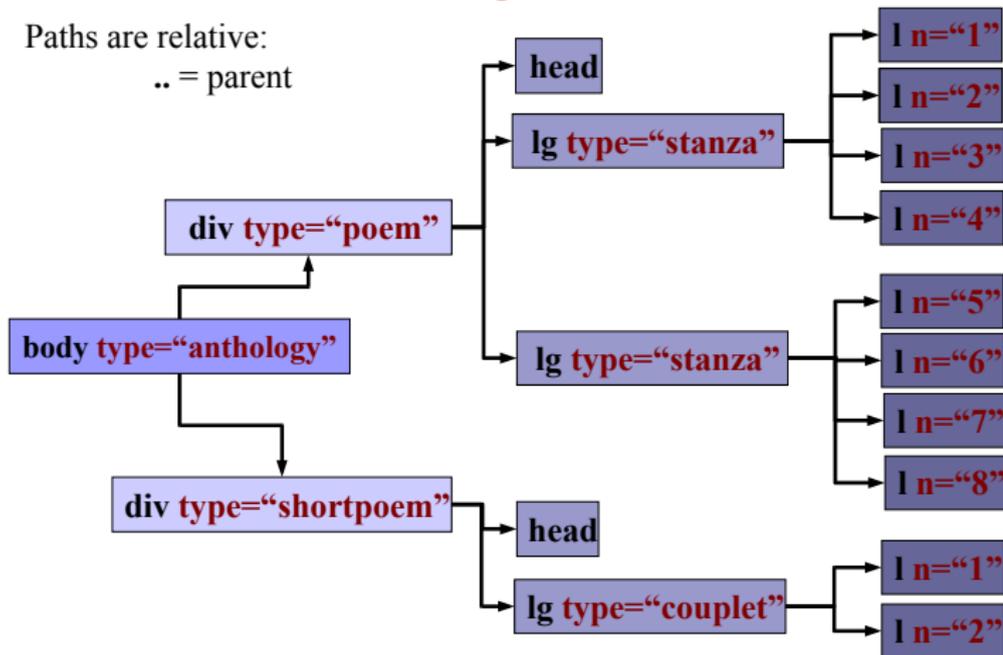
//div[@type="poem"]//l



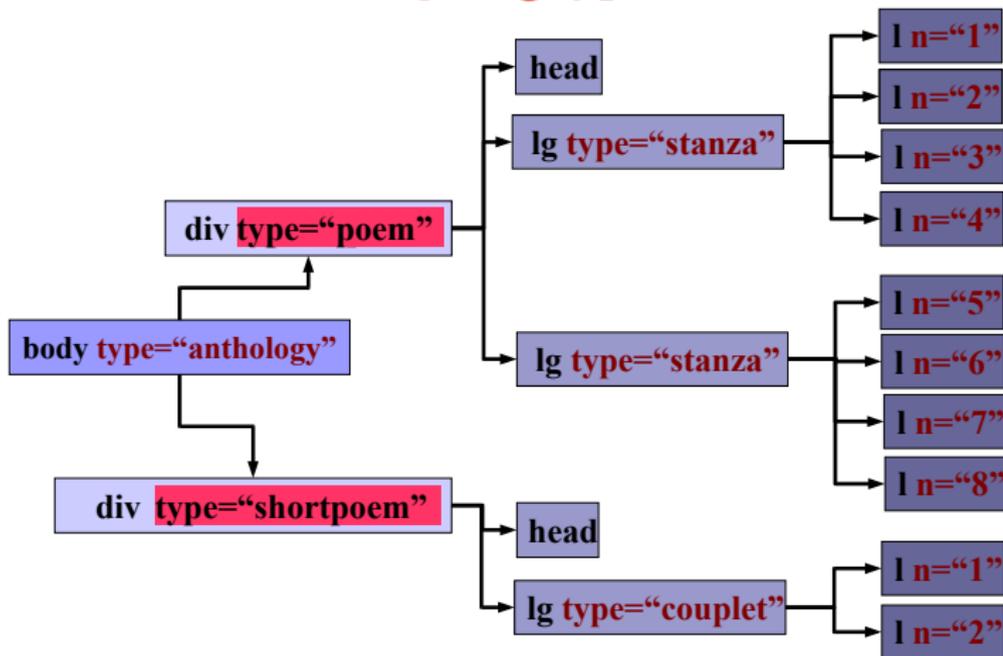
//lg/../@type ?

Paths are relative:

.. = parent

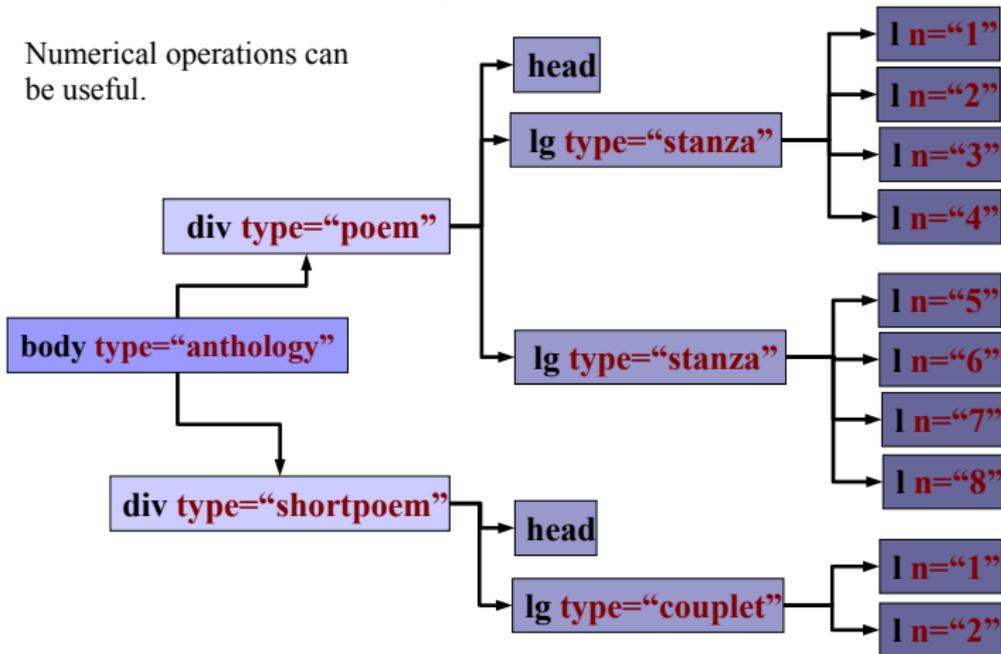


//lg/./@type

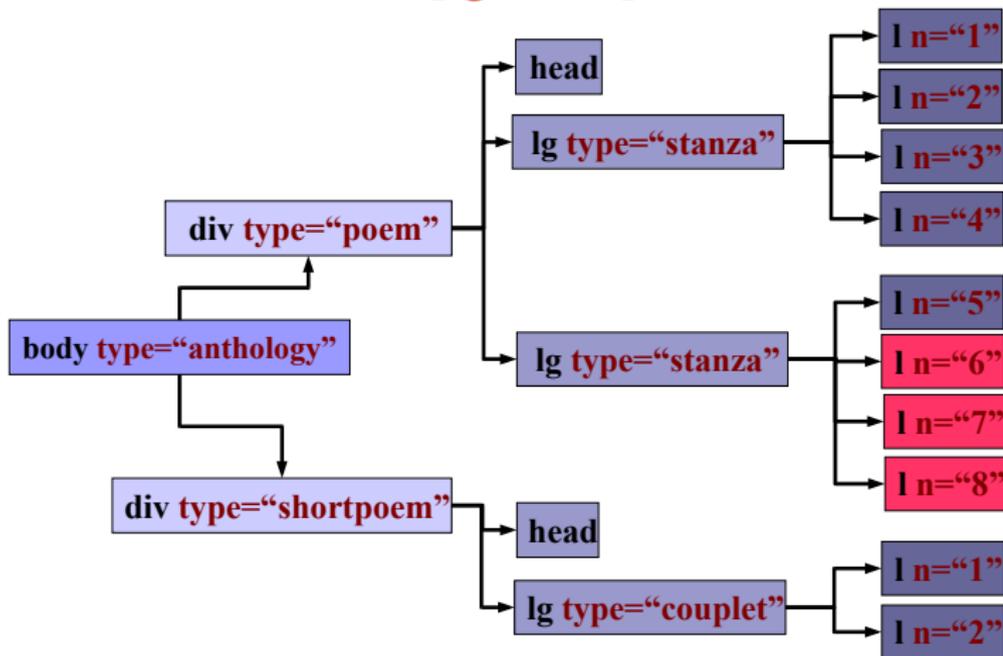


//l[@n > 5] ?

Numerical operations can be useful.

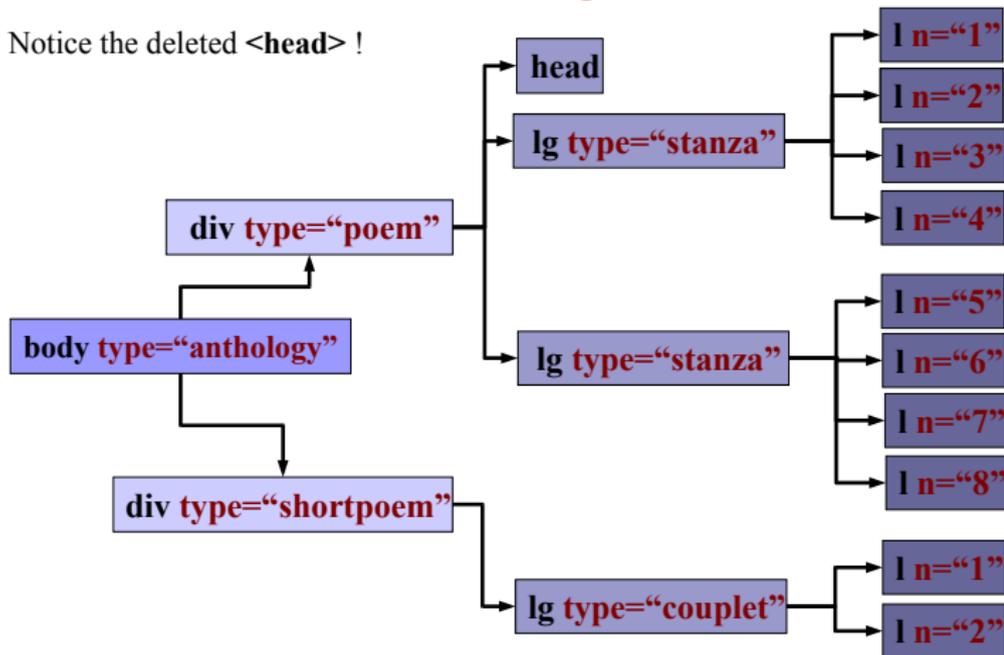


//l[@n > 5]

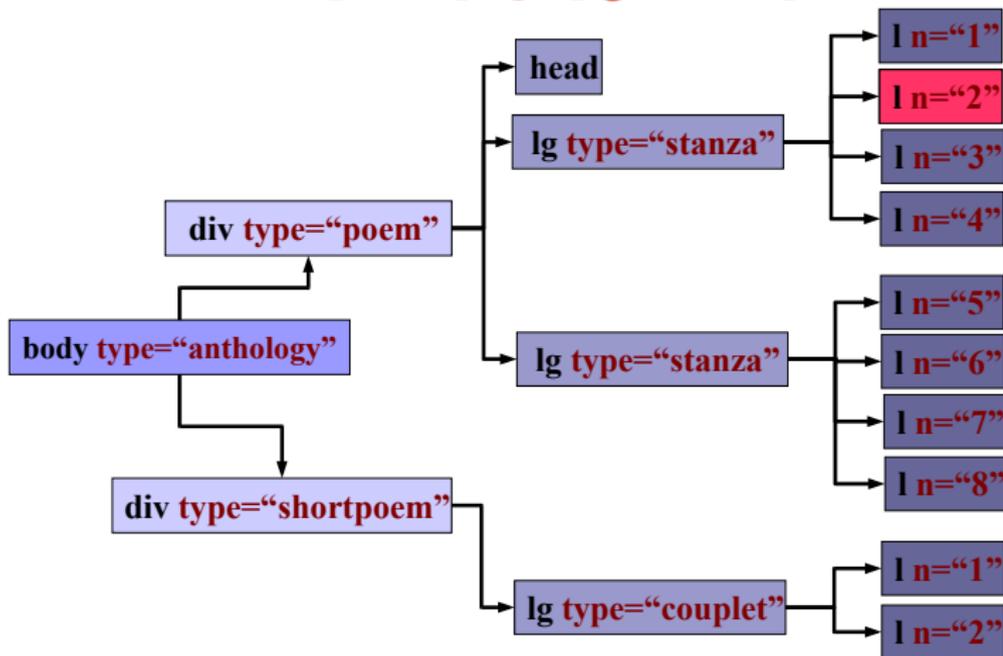


//div[head]/lg/l[@n="2"] ?

Notice the deleted <head> !

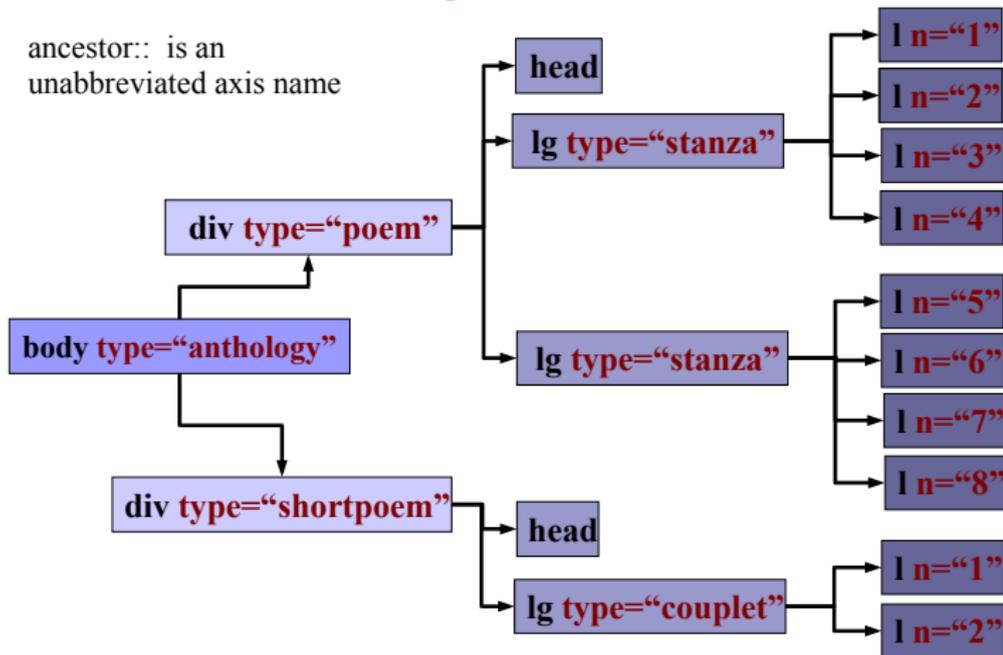


//div[head]/lg/l[@n="2"]

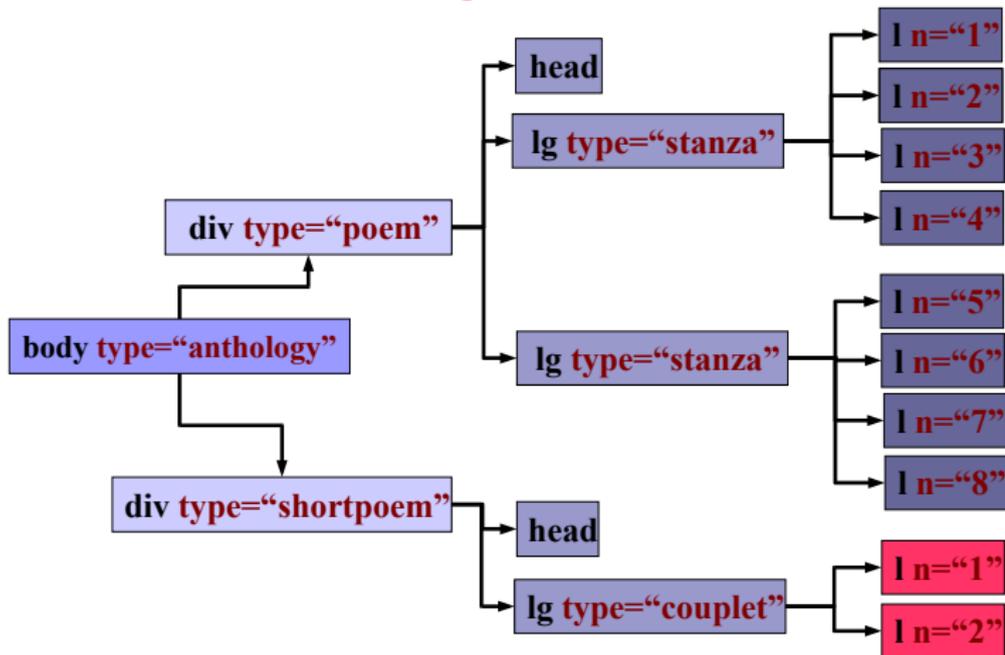


//l[ancestor::div/@type="shortpoem"] ?

ancestor:: is an unabbreviated axis name



//l[ancestor::div/@type="shortpoem"]



XPath: More About Paths

- A location path results in a node-set
- Paths can be absolute (`/div/lg[1]/l`)
- Paths can be relative (`l/../../head`)
- Formal Syntax: `(axisname::nodetest[predicate])`
- `child::div[contains(lower-case(head), 'ROSE')]`

XPath: Axes

- ancestor::** Contains all ancestors (parent, grandparent, etc.) of the current node
- ancestor-or-self::** Contains the current node plus all its ancestors (parent, grandparent, etc.)
- attribute::** Contains all attributes of the current node
- child::** Contains all children of the current node
- descendant::** Contains all descendants (children, grandchildren, etc.) of the current node
- descendant-or-self::** Contains the current node plus all its descendants (children, grandchildren, etc.)

XPath: Axes (2)

- `following::` Contains everything in the document after the closing tag of the current node
- `following-sibling::` Contains all siblings after the current node
 - `parent::` Contains the parent of the current node
- `preceding::` Contains everything in the document that is before the starting tag of the current node
- `preceding-sibling::` Contains all siblings before the current node
 - `self::` Contains the current node

Axis examples

- `ancestor::lg` = all `<lg>` ancestors
- `ancestor-or-self::div` = all `<div>` ancestors or current
- `attribute::n` = `n` attribute of current node
- `child::l` = `<l>` elements directly under current node
- `descendant::l` = `<l>` elements anywhere under current node
- `descendant-or-self::div` = all `<div>` children or current
- `following-sibling::l[1]` = next `<l>` element at this level
- `preceding-sibling::l[1]` = previous `<l>` element at this level
- `self::head` = current `<head>` element

XPath: Predicates

- `child::lg[attribute::type='stanza']`
- `child::l[@n='4']`
- `child::div[position()=3]`
- `child::div[4]`
- `child::l[last()]`
- `child::lg[last()-1]`

XPath: Abbreviated Syntax

- nothing is the same as `child::`, so `lg` is short for `child::lg`
- `@` is the same as `attribute::`, so `@type` is short for `attribute::type`
- `.` is the same as `self::`, so `./head` is short for `self::node()/child::head`
- `..` is the same as `parent::`, so `../lg` is short for `parent::node()/child::lg`
- `//` is the same as `descendant-or-self::`, so `div//l` is short for `child::div/descendant-or-self::node()/child::l`

XPath: Functions

XPath contains numerous functions: you've seen 'last()' already. There are also many other functions, including:

Conversion: boolean, string, number

Contexts: count, deep-equals, last, position

DateTimes: current-dateTime, day-from-dateTime, months-from-duration, timezone-from-dateTime

Math: avg, ceiling, count, floor, max, min, round, sum

Logic: true, false, not

Nodes: lang, local-name, name, namespace-uri, text

Sequences: distinct-values, empty, index-of, subsequence

Strings: concat, contains, lower-case, matches, normalize-space, replace, starts-with, string-length, substring, substring-after, substring-before, tokenize, translate, upper-case

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Custom Validation External Tools

XPath 2.0

Project

- sample.xpr
 - css
 - debugger
 - epub
 - fo
 - import
 - json
 - jsp
 - nvd1
 - relaxng
 - schematron
 - svg
 - wsdl
 - xquery
 - dita
 - docbook
 - form-controls
 - ooxml
 - tei
 - unicode-bidi
 - xhtml
 - xproc
 - xspec
 - personal-schema.xml
 - personal.css
 - personal.dtd
 - personal.xml
 - personal.xsd
 - personal.xsl
 - simpleLayoutSample.xpr

The Master Files support is disabled

Enable [Read more](#)

Project Open/Find Resource

Transform...

Type filter text

Associati... Scenario

Welcome to <Oxygen/>!

Create New

- New Document...
- New Project...

Recent Files

- Open file...

Recent Projects

- sample.xpr
- Open Project...

Learn <Oxygen/>

Colors and Styles for ... XSLT Quick Fix Support

Upcoming Events

Technical Communication UK **tekom europe roadshow 2014**

Technical Communica... Tekom Europe Roads...
September 16-18, 2014 September 24, 2014
Brighton, United King.. Bucharest, Romania

Resources

- User Guide
- Discussion Forum
- Mailing List

Tip of the Day

The access to a SharePoint repository is easy to use. Just set up a SharePoint connection by providing the host address, user name and password and start editing the remote content with operations like: check out, lock, edit, check in.

[More details](#)

Close

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Custom Validation External Tools

XPath 2.0

Project

sample.xpr

- sample.xpr
 - css
 - debugger
 - epub
 - fo
 - import
 - json
 - jsp
 - nvd1
 - relaxng
 - schematron
 - svg
 - wsdi
 - xquery
 - dita
 - docbook
 - form-controls
 - ooxml
 - tei
 - unicode-bidi
 - xhtml
 - xproc
 - xspec
 - personal-schema.xml
 - personal.css
 - personal.dtd
 - personal.xml
 - personal.xsd
 - personal.xsl
 - simpleLayoutSample.xpr

The Master Files support is disabled

Enable [Read more](#)

Project Open/Find Resource

Transform...

Type filter text

Associati... Scenario

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File Edit Find Project Options Tools Document Window Help

Saxon-EE External Tools

XPath 2.0 //TEI

cem-sample.xml x

```

1 <?xml version="1.0" encoding="UTF-8"?>
2 <teiCorpus xmlns="http://www.tei-c.org/ns/1.0">
3   <teiHeader>
4     <fileDesc>
5       <titleStat>
6         <title>The Protestant Cemetery, Rome</title>
7         <author>Sebastian Rahtz</author>
8       </titleStat>
9       <editionStat>
10        <edition>
11          <date>September 2013</date>
12        </edition>
13      </editionStat>
14      <publicationStat>
15        <p>British School at Rome</p>
16      </publicationStat>
17      <sourceDesc>
18        <p>This is a saapled copy of an original document for teaching purposes. See <ptr
19          target="http://tei.it.ox.ac.uk/pc/"> for output and <ptr target="https://github.com/sebastianrahtz/ProtestantCemetery"/> for files</p>
20      </sourceDesc>
21    </fileDesc>
22    <encodingDesc>
23      <classDecl>
24        <taxonomy xml:id="Type">
25          <category xml:id="t_P">
26            <catDesc>primary inscription</catDesc>
27          </category>
28          <category xml:id="t_S">
29            <catDesc>secondary inscription</catDesc>
30          </category>
31          <category xml:id="t_G">
32            <catDesc>graffito</catDesc>
33          </category>
34          <category xml:id="t_M">
35            <catDesc>mason's mark</catDesc>
36          </category>
37          <category xml:id="t_PC">
38            <catDesc>primary comment</catDesc>
39          </category>
40          <category xml:id="t_SC">
41            <catDesc>secondary comment</catDesc>
42          </category>
43          <category xml:id="t_">
44            <catDesc>(unrecorded)</catDesc>
45          </category>
46        </taxonomy>
47        <taxonomy xml:id="Face">
48          <category xml:id="f_I">
49            <catDesc>inside</catDesc>
50          </category>
51          <category xml:id="f_E">
52            <catDesc>west side</catDesc>
53          </category>
54          <category xml:id="f_W">
55            <catDesc>east side</catDesc>

```

Text Grid Author

U-0074 2:20

File Edit Find Project Options Tools Document Window Help

Saxon-EE External Tools

XPath 2.0 //TEI[@xml:id="S2300"]

cem-sample.xml x

```

8792 </text>
8793 </TEI>
8794
8795 <TEI xmlns="http://www.tei-c.org/ns/1.0" xml:id="S2300">
8796 <teiHeader>
8797 <fileDesc>
8798 <titleStat>
8799 <title>Protestant Cemetary, Rose: Stone 2300</title>
8800 </titleStat>
8801 <publicationStat>
8802 <p>Unpublished.</p>
8803 </publicationStat>
8804 <sourceDesc>
8805 <msDesc facs="#Plat_S2300">
8806 <msIdentifier>
8807 <idno>S2300</idno>
8808 <altIdentifier>
8809 <idno type="zone">Zona Terza</idno>
8810 </altIdentifier>
8811 <altIdentifier>
8812 <idno type="tomb">1278</idno>
8813 </altIdentifier>
8814 </msIdentifier>
8815 <physDesc>
8816 <objectDesc form="HEAD">
8817 <supportDesc>
8818 <support>
8819 <material>stone</material>
8820 </support>
8821 <extent>
8822 <num>1</num>
8823 <dimensions unit="cm">
8824 <height>62</height>
8825 <depth>21</depth>
8826 <width>78</width>
8827 </dimensions>
8828 </extent>
8829 <condition>good</condition>
8830 </supportDesc>
8831 </objectDesc>
8832 </msDesc>

```

Text Grid Author

Description - 1 item	XPath location	Resource	System ID	Location
xml:id="S2300"	/teiCorpus[1]/TEI[74]	cem-sample.xml	/home/jamesc/svn/tei.ft.ox.ac.uk/Talks/2014-09-graz/...	8795:4

XPath x

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File Edit Find Project Options Tools Document Window Help

Saxon-EE External Tools

XPath 2.0 //TEI[@xml:id="S2300"]

```

8792 </text>
8793 </TEI>
8794
8795 <TEI xmlns="http://www.tei-c.org/ns/1.0" xml:id="S2300">
8796 <teiHeader>
8797 <fileDesc>
8798 <titleStat>
8799 <title>Protestant Cemetery, Rome: Stone 2300</title>
8800 </titleStat>
8801 <publicationStat>
8802 <p>Unpublished.</p>
8803 </publicationStat>
8804 <sourceDesc>
8805 <msDesc facs="#Plat_S2300">
8806 <msIdentifier>
8807 <idno>S2300</idno>
8808 <altIdentifier>
8809 <idno type="zone">Zona Terza</idno>
8810 </altIdentifier>
8811 <altIdentifier>
8812 <idno type="tomb">1278</idno>
8813 </altIdentifier>
8814 </msIdentifier>
8815 <physDesc>
8816 <objectDesc form="HEAD">
8817 <supportDesc>
8818 <support>
8819 <material>stone</material>
8820 </support>
8821 <extent>
8822 <num>1</num>
8823 <dimensions unit="cm">
8824 <height>62</height>
8825 <depth>21</depth>
8826 <width>78</width>
8827 </dimensions>
8828 </extent>
8829 <condition>good</condition>
8830 </supportDesc>
8831 </objectDesc>
8832 </msDesc>

```

XPPath/XQuery Builder - cem-sample.xml

XPPath 2.0

Scope: Current File

```

1 //TEI[@xml:id="S2300"]

```

Text Grid Author

xml:id="S2300"	Description - 1 item	XPath location	Resource	System ID	Location
xml:id="S2300"		/teiCorpus[1]/TEI[74]	cem-sample.xml	/home/jamesc/svn/tei.it.ox.ac.uk/Talks/2014-09-graz/..8795:4	

XPPath x

U+ 000A 8904 : 25

File Edit Find Project Options Tools Document Window Help

Saxon-EE External Tools

XPath 2.0 - Execute XPath on 'Current File'

```

cem-sample.xml x
2078 <listPerson>
2079   <persons>
2080     <age>79</age>
2081     <sex>2</sex>
2082     <persName>
2083       <forename>Elizabeth</forename>
2084       <surname>van Buren</surname>
2085     </persName>
2086     <birth when="1881-10-18">
2087       <placeName>
2088         <settlement>London</settlement>
2089         <country>England</country>
2090       </placeName>
2091     </birth>
2092     <death when="1961-09-05">
2093       <placeName>
2094         <settlement>Rome</settlement>
2095         <country>Italy</country>
2096       </placeName>
2097     </death>
2098     <nationality key="GB"/>
2099     <occupation>archaeologist</occupation>
2100   </persons>
2101   <person>
2102     <age>89</age>
2103     <sex>1</sex>
2104     <persName>
2105       <forename>Albert William</forename>
2106       <surname>van Buren</surname>
2107     </persName>
2108     <birth when="1878-02-17">
2109       <placeName>
2110         <settlement>Milford Conn.</settlement>
2111         <country>USA</country>
2112       </placeName>
2113     </birth>
2114     <death when="1968-02-04">
2115       <placeName>
2116         <settlement>Rome</settlement>
2117         <country>Italy</country>
2118       </placeName>

```

XPPath/XQuery Builder - cem-sample.xml

XPPath 2.0

Scope: Current File

```

1 /tei/Corpus/TEI/teiHeader/profileDesc/particDesc/listP
erson/person[sex='2']

```

Text Grid Author

Description - 75 items	XPath location	Resource	System ID	Location
	/tei/Corpus[1]/TEI[2]/teiHeader[1]/...	cem-sample.xml	/home/jamesc/svn/tei.it.ox.ac.uk/Talks/2014-09-graz/...	1670:19
	/tei/Corpus[1]/TEI[5]/teiHeader[1]/...	cem-sample.xml	/home/jamesc/svn/tei.it.ox.ac.uk/Talks/2014-09-graz/...	1990:19
	/tei/Corpus[1]/TEI[6]/teiHeader[1]/...	cem-sample.xml	/home/jamesc/svn/tei.it.ox.ac.uk/Talks/2014-09-graz/...	2079:19
	/tei/Corpus[1]/TEI[7]/teiHeader[1]/...	cem-sample.xml	/home/jamesc/svn/tei.it.ox.ac.uk/Talks/2014-09-graz/...	2244:19
	/tei/Corpus[1]/TEI[8]/teiHeader[1]/...	cem-sample.xml	/home/jamesc/svn/tei.it.ox.ac.uk/Talks/2014-09-graz/...	2379:19
	/tei/Corpus[1]/TEI[10]/teiHeader[1]/...	cem-sample.xml	/home/jamesc/svn/tei.it.ox.ac.uk/Talks/2014-09-graz/...	2583:19
	/tei/Corpus[1]/TEI[12]/teiHeader[1]/...	cem-sample.xml	/home/jamesc/svn/tei.it.ox.ac.uk/Talks/2014-09-graz/...	2805:19
	/tei/Corpus[1]/TEI[13]/teiHeader[1]/...	cem-sample.xml	/home/jamesc/svn/tei.it.ox.ac.uk/Talks/2014-09-graz/...	2901:19

XPPath x

U+003C 2079: 19

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Saxon-EE External Tools

XPath 2.0 Execute XPath on 'Current File'

cem-sample.xml x

```

4789 <profileDesc>
4790 <particDesc>
4791 <listPerson>
4792 <persons>
4793 <sex>2</sex>
4794 <persNames>
4795 <forename>Eliza</forename>
4796 <surname>Fuller</surname>
4797 </persName>
4798 <birth>
4799 <placeName>
4800 <settlement>Brighton Sussex</settlement>
4801 <country>England</country>
4802 </placeName>
4803 </birth>
4804 <death when="1845-02-28"/>
4805 <nationality key="GB"/>
4806 </persons>
4807 </listPerson>
4808 </particDesc>
4809 </profileDesc>
4810 </teiHeader>
4811 <facsimile>
4812 <surface ulx="0" uly="88.158275" lrx="3200" lry="1188.158275">
4813 <zone xml:id="Plot_5320" ulx="1230.355371" uly="469.563762" lrx="1240.631404"
4814 lry="471.88105399999995"
4815 points="1230.414414,469.563762 1240.631404,469.80961 1240.572343,471.88105399999995 1230.355371
4816 />
4817 </surface>
4818 </facsimile>
4819 <text>
4820 <body>
4821 <div type="inscription" xml:lang="en" ana="#f_S ec_2 #m_I st_P">
4822 <ab>SACRED</ab>
4823 <ab>TO THE MEMORY OF</ab>
4824 <ab>ELIZA FULLER</ab>
4825 <ab>RELICT OF CAPTAIN</ab>
4826 <ab>S. FULLER R.N. OF</ab>
4827 <ab>BRIGHTON SUSSEX</ab>
4828 <ab>DIED AT ROME ON THE 28TH</ab>
4829 <ab>FEBRUARY. AND WAS BURIED</ab>

```

XPPath/XQuery Builder - cem-sample.xml

XPPath 2.0 Current File

```

1 /teiCorpus/tei/teiHeader/profileDesc/particDesc/listP
1 erson/person[sex="2"][birthplaceName/country =
1 'England']

```

Text Grid Author

Description - 4 items	XPath location	Resource	System ID	Location
	/teiCorpus[1]/tei[6]/teiHeader[1]...	cem-sample.xml	/home/james/svn/tei.it.ox.ac.uk/Talks/2014-09-graz/...	2079:19
	/teiCorpus[1]/tei[102]/teiHeader[1]...	cem-sample.xml	/home/james/svn/tei.it.ox.ac.uk/Talks/2014-09-graz/...	2583:19
	/teiCorpus[1]/tei[32]/teiHeader[1]...	cem-sample.xml	/home/james/svn/tei.it.ox.ac.uk/Talks/2014-09-graz/...	4792:19
	/teiCorpus[1]/tei[39]/teiHeader[1]...	cem-sample.xml	/home/james/svn/tei.it.ox.ac.uk/Talks/2014-09-graz/...	5479:19

XPPath x

U+ 003C 4792: 19

File Edit Find Project Options Tools Document Window Help

Saxon-EE External Tools

XPath 2.0 - Execute XPath on 'Current File'

```

7716 <physDesc>
7717   <objectDesc form="CROSS">
7718     <supportDesc>
7719       <support>
7720         <material>stone</material>
7721       </support>
7722     <extent>
7723       <num>1</num>
7724       <dimensions unit="cm">
7725         <height>177</height>
7726         <depth>96</depth>
7727         <idth>70</width>
7728       </dimensions>
7729     </extent>
7730     <condition>bad</condition>
7731   </supportDesc>
7732 </objectDesc>
7733 <decoDesc>
7734   <summary>Wreath is made of five blue flowers in mosaic.</summary>
7735   <decoNote type="feature">
7736     <num>1</num>
7737     <ptr target="#i_24 #st_A #f_S"/>
7738   </decoNote>
7739   <decoNote type="feature">
7740     <num>1</num>
7741     <ptr target="#i_66 #st_A #f_S"/>
7742   </decoNote>
7743   <decoNote type="feature">
7744     <num>1</num>
7745     <ptr target="#i_112 #st_A #f_S"/>
7746   </decoNote>
7747   <decoNote type="feature">
7748     <num>1</num>
7749     <ptr target="#i_113 #st_C #f_X"/>
7750   </decoNote>
7751   <decoNote type="faces">south side</decoNote>
7752 </decoDesc>
7753 </physDesc>
7754 </asDesc>
7755 </sourceDesc>
7756 </fileDesc>

```

XPPath/XQuery Builder - cem-sample.xml

Scope: X Remove from favorites

1 / objectDesc[...]
 . / height > 175

objectDesc of stones taller than 175
 * Clear

/objectDesc[number(supportDesc/extent/dimensions/height) gt 175]

Text Grid Author

Description - 27 items	XPath location	Resource	System ID	Location
form="CROSS"	/teiCorpus[1]/TEI[63]/teiHeader[1]...	cem-sample.xml	/home/jamesc/svn/tei.it.ox.ac.uk/Talks/2014-09-graz/...	7717:22
form="COPE"	/teiCorpus[1]/TEI[64]/teiHeader[1]...	cem-sample.xml	/home/jamesc/svn/tei.it.ox.ac.uk/Talks/2014-09-graz/...	7825:22
form="LEDG"	/teiCorpus[1]/TEI[66]/teiHeader[1]...	cem-sample.xml	/home/jamesc/svn/tei.it.ox.ac.uk/Talks/2014-09-graz/...	8015:22
form="CROSS"	/teiCorpus[1]/TEI[67]/teiHeader[1]...	cem-sample.xml	/home/jamesc/svn/tei.it.ox.ac.uk/Talks/2014-09-graz/...	8107:22
form="COPE"	/teiCorpus[1]/TEI[69]/teiHeader[1]...	cem-sample.xml	/home/jamesc/svn/tei.it.ox.ac.uk/Talks/2014-09-graz/...	8307:22
form="CROSS"	/teiCorpus[1]/TEI[73]/teiHeader[1]...	cem-sample.xml	/home/jamesc/svn/tei.it.ox.ac.uk/Talks/2014-09-graz/...	8706:22
form="CROSS"	/teiCorpus[1]/TEI[83]/teiHeader[1]...	cem-sample.xml	/home/jamesc/svn/tei.it.ox.ac.uk/Talks/2014-09-graz/...	9568:22
form="CROSS"	/teiCorpus[1]/TEI[86]/teiHeader[1]...	cem-sample.xml	/home/jamesc/svn/tei.it.ox.ac.uk/Talks/2014-09-graz/...	9833:22

XPath X

U+ 003C 7717: 22

Find/Replace

Text to find:

Replace with:

XPath:

Direction:
 Forward
 Backward

Scope:
 All
 Only selected lines

Options:
 Case sensitive
 Incremental
 Wrap around
 Whole words only
 Regular expression
 Dot matches all

Enable XML search options >>

Buttons: Find, Replace, Find All, Replace All, Replace to End, Close

Can be used only on well-formed

Find/Replace

Text to find:

Replace with:

XPath:

Direction: Forward Backward

Scope: All Only selected lines

Options:

Case sensitive Whole words only

Incremental Regular expression

Wrap around Dot matches all

Enable XML search options <<

Search only in:

Element names XML search options only apply to XML documents

Element contents CDATA

Attribute names Doctype

Attribute values Entities

Comments

32 matches found

Next!

Next we're going to have a bit of a demo of using XPath for searching in oXygen and do an exercise.

- XPath Tutorial: <http://www.w3schools.com/xpath/>
- XPath Functions:
http://www.w3schools.com/xpath/xpath_functions.asp